

OpenBiblio Documentation

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

Contents

1	Introduction	1
1.1	About This Documentation	1
2	The OpenBiblio Community	1
2.1	Getting help	1
2.2	Reporting bugs	1
2.3	Creating plugins	1
3	Installing OpenBiblio	1
3.1	System requirements	1
3.2	Installing OpenBiblio 1.0 on a Windows computer	1
3.2.1	Install prerequisite software	2
3.2.2	Install OpenBiblio	2
3.2.3	Using the OpenBiblio installer.	3
3.3	Installing OpenBiblio 1.0 on a shared Linux host	3
3.4	Installing OpenBiblio 1.0 on a Linux host with full access	3
3.4.1	Install prerequisite software	3
3.4.2	Install yaz (optional)	3
3.4.3	Start the Apache and MySQL services	4
3.4.4	Create a MySQL database	4
3.4.5	Prepare OpenBiblio for its installation	4
3.4.6	Using the OpenBiblio installer.	4
4	OpenBiblio System Administration	4
4.1	Managing your users	5
4.1.1	Working with passwords	5
4.2	Configuring the OPAC	5
4.3	Managing plugins	5
4.3.1	Creating a new plugin	5
	Design the plugin	5
	Add your plugin to the OpenBiblio menu	6
4.4	Managing the MySQL database	6
4.5	Managing the server	7
4.5.1	Logs	7

5	Circulation	7
5.1	Checking out materials	7
5.1.1	Retrieving a member's account.	7
5.1.2	Chcecking out an item	7
5.2	Checking in materials	7
5.3	Holds	7
5.4	Bookings	8
6	Cataloging	8
6.1	Orientation to OpenBiblio cataloging	8
6.1.1	Call numbers	8
6.1.2	Special subfields	8
6.2	Copy cataloging	8
6.3	Original cataloging	8
6.4	Importing MARC records	9
6.5	Importing CSV records	9
6.6	Bulk delete records	9
7	Research	9
7.1	DOI search	9
8	Reports	9
8.1	Running a report	9
8.1.1	Exporting to different formats	9
8.2	Adding new reports	9
9	OpenBiblio Recipes	9

1 Introduction

This manual provides documentation for users of OpenBiblio 1.0, an automated library system.

1.1 About This Documentation

This documentation uses ASCIIDoc, using a workflow borrowed from the Evergreen ILS Documentation Interest Group.

2 The OpenBiblio Community

We are happy to welcome to the OpenBiblio Community! You have joined a worldwide group of librarians, developers, community centers.

2.1 Getting help

You can get help from the mailing list or the sourceforge forums.

2.2 Reporting bugs

You can report bugs in the bitbucket repository.

2.3 Creating plugins

Instructions coming soon.

3 Installing OpenBiblio

3.1 System requirements

We have tested OpenBiblio installation on Windows 7 and Ubuntu Linux 14.04.

We also plan to test other versions of Windows, Ubuntu Linux 12.04, Debian Linux, Fedora Linux, Mac OSX, and CentOS Linux.

To install OpenBiblio, you will need PHP version 5.4 or higher. We have not yet tested OpenBiblio on PHP 6.x or 7.x.

You will need MySQL. Not sure of version.

You will also need Apache.

3.2 Installing OpenBiblio 1.0 on a Windows computer

You can turn your personal Windows computer into an OpenBiblio server. You will need administrator access to your computer, an Internet connection, and you may also need to check with your local IT experts that you are not behind a restrictive firewall.

Note that turning your personal computer into a server carries some risks, especially if your server is broadcasting across the web instead of just a local network. We recommend that you run this software on a dedicated computer that does not contain any sensitive or private data.

3.2.1 Install prerequisite software

1. Download EasyPHP's Webserver from <http://easyphp.org>. We have tested these instructions with version 14.1 of EasyPHP.
2. Agree to the relevant licenses and choose an installation folder that is convenient for you.
3. Once EasyPHP is installed, it will appear as an icon in your system tray. On Windows 7, click on this icon and open the dashboard.
4. The dashboard will open in your default Web browser. Once it does, click Settings in the top right corner of the screen.
5. Click on HTTP SERVER. Install and start this service.
6. Click on DB SERVER. Install and start this service.
7. Go back to the dashboard.
8. Under modules, you should now see an option to administer MySQL through a program called PhpMyAdmin.
9. Open PhpMyAdmin. The default username is root and there is no default password. Click on Users.
10. Click on "Edit Privileges" next to root.
11. Click on "Change Password".
12. Click on Add user.
13. Choose a memorable username, like obiblio, and enter it. In the host field, enter "localhost". Create a long, secure, memorable password.
14. Under "Database for user", there should be a checkbox for "Create database with same name and grant all privileges". Check this box.
15. Click go.

3.2.2 Install OpenBiblio

1. Open the EasyPHP dashboard.
 2. Go to Settings and open the HTTP SERVER settings.
 3. Note the Document Root field. This is the folder on your computer where OpenBiblio will be running.
 4. Open the DB SERVER settings. Note the parameters area.
 5. Download OpenBiblio and place the files into the Document Root folder.
 6. Open the document root folder.
 7. Locate the file database_constants_deploy.php. Make a copy of this file called database_constants.php.
 8. Edit your new database_constants.php file. Enter the database, username, and password you created in PhpMyAdmin. The hostname should be the IP address and port that you noticed in the DB SERVER settings in the format 192.168.333.333:3388, where 192.168.333.333 is the IP address and 3388 is port number.
 9. Save the file.
 10. Go back to the EasyPHP dashboard and open the HTTP SERVER settings once more.
 11. There is a link there to open up OpenBiblio under the URL field.
 12. Add /install to the end of the URL in your browser. The installer should run.
-

3.2.3 Using the OpenBiblio installer.

1. Install test data if you would like.
2. Log in to your new OpenBiblio system. The default user is admin with password admin.

3.3 Installing OpenBiblio 1.0 on a shared Linux host

These instructions will help you set up OpenBiblio on a Web server provided by Dreamhost, Hostgator, or a similar service.

1. Create a database using your hosting service's interface. Note the host, username, password, and database name.
2. Download the Filezilla FTP program

3.4 Installing OpenBiblio 1.0 on a Linux host with full access

These instructions consist mainly of commands that you can run in your terminal to quickly get a working installation of OpenBiblio. If you are not comfortable with using the terminal, feel free to use the instructions above for a shared Linux host.

These procedures have been tested on Fedora 21 and Ubuntu 14.04.

3.4.1 Install prerequisite software

OpenBiblio requires apache, PHP, and MySQL. If you intend to copy catalog records from other libraries, we strongly recommend that you use yaz. The following steps include a YAZ install.

On Ubuntu:

```
sudo apt-get install apache2 php5 mysql-server yaz php5-dev php5-mysql php-pear libyaz-4 <=>
unzip
```

Tip

This will prompt you to choose a root password for MySQL. Make sure it is a secure one!

On Fedora 21:

```
sudo yum install httpd php mysql-server php-devel php-mysql php-pear unzip yaz libyaz-devel <=>
gcc
sudo mysql_secure_installation
```

Tip

mysql_secure_installation will ask you for a current root password, which you may leave blank. Be sure to give root a new, secure password. You should also choose to remove anonymous users, disallow root login remotely, and remove the test database.

3.4.2 Install yaz (optional)

Next, install yaz as a PHP extension using pecl.

```
sudo pecl install yaz
```

Add a new line to your php.ini file. This file can be found at /etc/php/php.ini in Fedora and /etc/php5/apache/php.ini in Ubuntu. The line should be something like the following:

```
extension=yaz.so
```

3.4.3 Start the Apache and MySQL services

On Fedora 21:

```
sudo service httpd start
sudo service mysqld start
```

On Ubuntu:

```
sudo service apache2 start
sudo service mysql start
```

3.4.4 Create a MySQL database

First, open up MySQL.

```
mysql -uroot -p #MySQL will ask you for the root password you just created
```

Next, type the following commands to create a user and database for OpenBiblio to use.

```
CREATE DATABASE obiblio;
GRANT ALL PRIVILEGES ON obiblio.* TO obib_user@localhost IDENTIFIED BY 'obib_password';
```

3.4.5 Prepare OpenBiblio for its installation

```
wget -O obib.zip https://bitbucket.org/mstetson/obiblio-1.0-wip/get/26f88507b580.zip
unzip obib.zip
cd new-obib-dir
cp database_constants_deploy.php database_constants.php
```

Edit database_constants.php with the text editor of your choice.

Delete the default "It Works" page from /var/www/html.

```
sudo mv ./ * /var/www/html/
```

On Fedora 21, you may need to run the following command to configure SELinux to allow access to the folder.

```
restorecon -r /var/www/html
```

3.4.6 Using the OpenBiblio installer.

1. Install test data if you would like.
2. Log in to your new OpenBiblio system. The default user is admin with password admin.

4 OpenBiblio System Administration

Thanks for being an OpenBiblio system administrator. We're glad that you are helping your library in this way.

4.1 Managing your users

To add a new staff member, go to Admin → Staff Admin. Click on the "Add New" button, found both at the top and bottom of this screen. You can then assign a username, password, name, and permission set to your staff member.



Warning

You must assign at least one permission, or the staff member will not be able to log in.

4.1.1 Working with passwords

Openbiblio's password management system is very straightforward. Users with Admin permission are able to change their own password or the password of any other staff account (including other administrators). Users without the Admin permission may not change anybody's password, not even their own.

To change the password of a staff account, go to Admin → Staff Admin. Click the pwd button next to the account you are working with. Enter the new password.

4.2 Configuring the OPAC

This section will describe settings found in the admin menu.

4.3 Managing plugins

OpenBiblio has a very flexible plugin system.

4.3.1 Creating a new plugin

This requires basic PHP skills and access to the files.

Design the plugin

1. Create a new directory that begins with the word plugin, followed by an underscore, followed by the name of your plugin. In UNIX systems, you might type something like this:

```
mkdir plugin_excitingPlugin
```

2. If you need to include custom CSS or JS, add it to a file called custom_head.php in this new directory.
3. Create three PHP files in the directory: a JS file, a Srvr file, and a Forms file.

Your plugin's server—located at `plugin_excitingPlugin/excitingSrvr.php`—is responsible for three tasks:

1. Performing any actions the user requests.
2. Obtaining any relevant data from the database, file structure, or external API.
3. Displaying the relevant data to the user in a nice HTML format.

A basic plugin server consists of a require statement to get the necessary data and methods and a switch statement to take care of the `$_REQUEST['mode']` variable. Here's a simple example:

```
<?php
require_once('../shared/common.php');
switch ($_REQUEST['mode']){
    case 'exciting':
        echo 'This plugin is very exciting.';
        break;
    case 'boring':
        echo 'This plugin is pretty boring.';
        break;
    default:
        echo T('invalid mode');
        break;
}
```

If you would like to access data from the database, you should require the appropriate model from the model directory. For example, if you'd like to use the Biblios model, you would include this in your plugin_excitingPlugin/excitingSrvr.php:

```
require_once('../model/Biblios.php');
$bib = new Biblios;
```

You can then access all those great methods and data through the `$bib` object.

Add your plugin to the OpenBiblio menu

1. Create a new directory inside the plugins directory with the name of your plugin. In UNIX systems, you might type something like this:

```
mkdir plugins/excitingPlugin
```

2. Create a file within this new directory called nav.nav

```
<?php
Nav::node('tools/excitingPlugin', 'Exciting Plugin', '../plugin_excitingPlugin/ ↵
    excitingPluginForms.php');
```

3. If you'd like to use Obib's localization framework but need to localize some more terms, create a file called tran.tran. You can use this to add new terms to your locale.

Tip

Plugins already have all of the exciting localization ability built in. However, note that you cannot override localized term definitions within tran.tran.



Warning

There is not yet a place to specify localized terms for plugins.

+ . Turn on your plugin using Tools → Plugin Manager.

4.4 Managing the MySQL database

This section will describe the database

4.5 Managing the server

This section will discuss other server-level considerations.

4.5.1 Logs

This section will mention logs of particular interest to OpenBiblio administrators.

5 Circulation

The circulation module is the heart of the OpenBiblio system.

5.1 Checking out materials

To check out materials, you must first open a member's account.

5.1.1 Retrieving a member's account.

1. Click on Circulation on the left side of the screen.
2. Enter a portion of the member's last name. If you have member barcodes turned on, you may alternatively scan their barcode.

Tip

Anybody with administrator privileges can turn member barcodes on using Tools → System Settings → Use Member Barcodes.

5.1.2 Chcecking out an item

1. Type or scan the item barcode into the Check Out field.

Something about due dates, etc.

5.2 Checking in materials

1. Click on Circulation on the left side of the screen.
2. Click Check In.
3. Type or scan the barcode number.
4. If the book was checked out, it will be added to the shelving cart, which is represented by a list at the bottom of the screen.

What if it is a weird status, does it change to regular?

How do you empty the shelving cart?

What if there is a hold or fines on the item?

5.3 Holds

You can place holds on items so you can check them out at a later time.

5.4 Bookings

You can also book certain items

6 Cataloging

OpenBiblio offers several ways to get your materials into your catalog and to manage the records you have entered.

6.1 Orientation to OpenBiblio cataloging

OpenBiblio uses the MARC format as the basis for the catalog, but its editing interfaces display human-readable field labels, rather than specific numeric MARC tags.

OpenBiblio's use of MARC is pretty standard, but there are a few specific ways it treats certain fields.

6.1.1 Call numbers

OpenBiblio's Call Number searches search only 099\$a, which is the local call number field. However, if you'd like to add call numbers from other fields, you can enable the Call Number Utilities plugin, which allows you to populate the 099\$a fields with data from other call number fields to make them searchable.

6.1.2 Special subfields

Three subfields display somewhat differently than usual.

- Field 024 \$a (identifier) is assumed to be a DOI, so it displays as a link to that digital object.
- Field 505 \$a (contents) is typically very long, so it displays as a scrollable text field.
- Field 856 \$u (URL - included by default in the ebook and web site material types) displays as a hyperlink.

6.2 Copy cataloging

1. Click Cataloging.
2. Click New Item.
3. Type or scan an ISBN. If you are unable to find any results using an ISBN, you can use the dropdown menus to try other search criteria.
4. If it finds a catalog record from a different library, it will fill in all the fields that it can, based on the media type and information from the other library.
5. Make sure that the call number is correct.
If you are seeing the wrong type of call number (e.g. you see a LoC call number when your library uses Dewey Decimal), somebody with admin privileges will need to change the Admin → Online Options settings.
6. Click Submit.
7. Enter copy information as needed. Click Update.

6.3 Original cataloging

Instructions coming soon

6.4 Importing MARC records

By default, the MARC record importer imports items as a "test load," so you can verify that there are no errors. You can set "test load" to false once you are satisfied with your settings and file.

6.5 Importing CSV records

Instructions coming soon.

6.6 Bulk delete records

This functionality does not yet exist.

7 Research

OpenBiblio can help with your research.

7.1 DOI search

A DOI (digital object identifier) can refer to an article, journal, digitized archival object, or any other digital object that may help you in your research. If you have one of these identifiers, you can paste it into the DOI search box, and OpenBiblio will open the relevant resource in a new tab for you.

8 Reports

OpenBiblio has a very flexible report system.

8.1 Running a report

Do it!

8.1.1 Exporting to different formats

It seems like PDF isn't working :-)

8.2 Adding new reports

You need access to the server via FTP, RDP, or SSH.

9 OpenBiblio Recipes

This is a collection of neat tricks and configurations that might be nice for your library.
